

PATENT
Docket No. 265.00170101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE FAX RECEIVED

Applicant(s): Lloyd et al.

Group Art Unit: 1652

JAN 27 2003

Serial No.: 09/864,866

Examiner: M. Walicka GROUP 1600

Confirmation No.: 2264

Filed: May 23, 2001

For: DNA REPAIR POLYPEPTIDES AND METHODS OF USE

OFFICIAL

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Assistant Commissioner for Patents

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Attn: Examiner M. Walicka

Total Pages (including cover page): 28

Washington, D.C. 20231

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AMENDMENT AND RESPONSE

Assistant Commissioner for Patents
Washington D.C. 20231

Dear Sir:

In response to the Office Action mailed October 28, 2002, please amend the above-identified application as follows:

In the Specification

Please replace the paragraph beginning at page 11, line 15, with the following rewritten paragraph. Per 37 C.F.R. §1.121, this paragraph is also shown in Appendix A with notations to indicate the changes made.

The present invention further includes polypeptides having pyrimidine glycosylase activity, preferably pyrimidine glycosylase/AP lyase activity, and amino acid identity with the amino acid sequence of SEQ ID NO:41, SEQ ID NO:42, or SEQ ID NO:43, preferably SEQ ID NO:41 or SEQ ID NO:42. Amino acid identity is defined in the context of a comparison between a polypeptide and SEQ ID NO:41 or SEQ ID NO:42, and is determined by aligning the residues of the two amino acid sequences (i.e., a candidate amino acid sequence and the amino acid sequence of SEQ ID NO:41, SEQ ID NO:42, or SEQ ID NO:43) to optimize the number of identical amino acids along the lengths of their sequences; gaps in either or both sequences are permitted in making the alignment in order to optimize the number of identical